

**U. S. PLANT PATENT APPLICATION OF**

**GREG RUSOW**

**FOR: BUXUS PLANT NAMED**

**‘MONRUE’**

RUSOW, Greg

TITLE: BUXUS PLANT NAMED 'MONRUE'

APPLICANT: GREG RUSOW

BOTANICAL CLASSIFICATION/CULTIVAR DESIGNATION:

*Buxus sempervirens* cultivar Monrue

5

## BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of Buxus, botanically known as *Buxus sempervirens*, commercially known as Boxwood, and hereinafter referred to by the name 'Monrue'.

10

The new Buxus is a naturally-occurring whole plant mutation of the *Buxus sempervirens* cultivar Graham Blandy, not patented. The new Buxus was discovered and selected by the Inventor in a controlled environment in Dayton, Oregon in June, 1995, as a single plant within a population of plants of the cultivar Graham Blandy.

15

Asexual reproduction of the new Buxus by cuttings taken in a controlled environment in Dayton, Oregon, since the fall of 1998, has shown that the unique features of this new Buxus are stable and reproduced true to type in successive generations.

## SUMMARY OF THE INVENTION

The cultivar Monrue has not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment and cultural practices such as temperature and light intensity without, however, any variance in genotype.

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'Monrue'. These characteristics in combination distinguish 'Monrue' as a new and distinct cultivar of Buxus:

1. Upright and columnar plant habit.
2. Vigorous growth habit.
3. Freely branching habit and short internodes, dense and bushy plant form.
4. Dark green foliage color that is retained throughout the year.
5. Relatively resistant to root rot pathogens common to Buxus.

Plants of the new Buxus differ from plants of the parent, the cultivar Graham Blandy, in leaf coloration as plants of the cultivar Graham Blandy do not retain their green coloration during the winter.

In addition, plants of the cultivar Graham Blandy are not as resistant to root rot pathogens, such as *Phytophthora*, than plants of the cultivar Monrue.

Plants of the new Buxus can be compared to plants of the Buxus cultivar Handsworthii, not patented. In side-by-side comparisons conducted in Dayton, Oregon, plants of the new Buxus differed from plants of the cultivar Handsworthii in the following characteristics:

1. Plants of the new Buxus had shorter internodes and were denser and bushier than plants of the cultivar Handsworthii.
2. Lateral branches of plants of the new Buxus were more flexible and not as upright as lateral branches of plants of the cultivar Handsworthii.
3. Plants of the new Buxus had flatter and thinner leaves than plants of the cultivar Handsworthii.
4. Plants of the new Buxus had lighter green-colored fully expanded foliage than plants of the cultivar Handsworthii.

#### BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying colored photographs illustrate the overall appearance of the new Buxus, showing the colors as true as it is

reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new Buxus.

- 5           The photograph at the top of the sheet comprises a side perspective view of a typical plant of 'Monrue' grown in a container. The photograph at the bottom left of the sheet is a close-up view of typical leaves of 'Monrue'.

#### DETAILED BOTANICAL DESCRIPTION

- 10           The aforementioned photographs and following observations and measurements describe plants grown in Azusa, California, grown in five-gallon containers in an outdoor nursery during the summer and under conditions which closely approximate commercial production. During the production of the plants, day temperatures ranged from 29 to  
15       32°C and night temperatures ranged from 13 to 16°F. Plants were about five years old when the photographs and the description were taken. Plants were pruned to maintain the plant's symmetry. In the description color references are made to The Royal Horticultural Society Colour Chart, 1995 Edition, except where general terms of ordinary dictionary  
20       significance are used.

RUSOW, Greg

BOTANICAL CLASSIFICATION:

*Buxus sempervirens* cultivar Monrue.

PARENTAGE:

5 Naturally-occurring whole plant mutation of the *Buxus*  
*sempervirens* cultivar Graham Blandy, not patented.

PROPAGATION:

Type: By cuttings.

Time to initiate roots: About 90 days at 13°C.

Time to produce a rooted young plant: About 270 days at 13°C.

10 Root description: Thick, whitish in color.

Rooting habit: Moderately dense; freely branching.

PLANT DESCRIPTION:

Plant type: Perennial evergreen shrub.

Plant form and growth habit: Upright and columnar plant habit.

15 Vigorous growth habit. Short internodes, dense and bushy form.

Branching habit: Freely branching; usually about five main  
branches each with about 15 to 18 lateral branches.

Plant height: About 80 cm.

Plant diameter (area of spread): About 38 cm.

Lateral branch description:

Length, primary branches: About 70 cm.

Length, lateral branches: About 20 cm.

Diameter, primary branches: About 2 cm.

5 Diameter, lateral branches: About 4 mm.

Internode length: About 1.5 cm.

Aspect: Upright.

Texture: Young stems, slightly pubescent; woody stems,  
rough.

10 Color:

Young stems: 144A.

Woody stems: 195A.

Foliage description:

Arrangement: Opposite, simple.

15 Length: About 2 to 3 cm.

Width: About 1.2 to 1.7 cm.

Shape: Ovate.

Apex: Slightly emarginate.

Base: Attenuate.

20 Margin: Entire.

*RUSOW, Greg*

Texture, upper and lower surfaces: Smooth, glabrous;  
leathery.

Venation pattern: Pinnate.

Color:

5                      Developing leaves, upper and lower surfaces: 144A.

Fully expanded leaves, upper surface: Darker than  
147A.

Fully expanded leaves, lower surface: 147B.

Venation, upper surface: 147A.

10                     Venation, lower surface: 147C.

Petiole:

Length: About 3 mm.

Diameter: About 1 mm.

15                     Texture, upper and lower surfaces: Smooth,  
glabrous.

Color, upper and lower surfaces: 146B.

#### FLOWER DESCRIPTION:

Flower development has not been observed on plants of the new  
Buxus.



*RUSOW, Greg*

#### DISEASE/PEST RESISTANCE:

5       Plants of the new Buxus have been observed to be relatively resistant to root rot pathogens, such as *Phytophthora*. Plants of the new Buxus have not been observed to be resistant to other pathogens and pests common to Buxus.

#### GARDEN PERFORMANCE:

Plants of the new Buxus have been observed to have excellent tolerance to wind, rain and temperatures from -6°C to 43°C.